1893.

GEOLOGY OF OHIO,

VOL. VII.

EDWARD ORTON, State Geologist.

Prof. C. N. BROWN, in Charge of Fieldwork. C. E. SHERMAN, Chief Draftsman.

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Maps Showing Outcrop Boundaries of Principal Coal Seams.

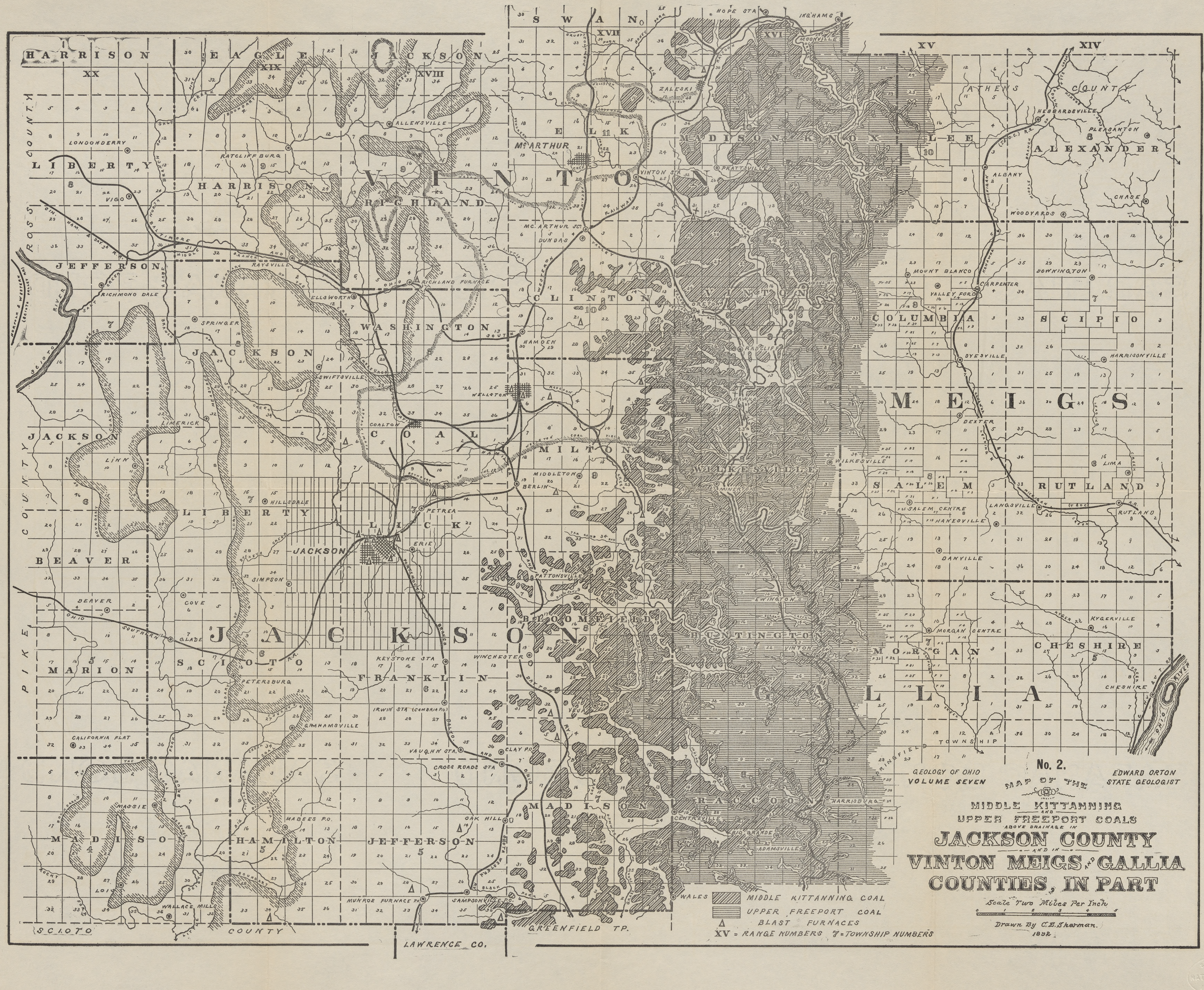
1. Lawrence, Gallia and Jackson Counties, (in part.)
2. Jackson, Vinton, Meigs and Gallia Counties, (in part).
3. Hocking, Perry, Athens and Vinton Counties, (in part.)
4. Muskingum, Licking, Perry and Morgan Counties, (in part).
5. Coshocton and Holmes Counties.
6. Tuscarawas, Harrison and Carroll Counties, in part).
7. Columbiana, Jefferson and Carroll Counties, (in part).
8. Guernsey and Stark Counties, (in part).
9. Pittsburgh and Meigs Creek Coal Seams.
10. Coal Fields of Ohio.

SCALE — Maps 1–9. Two miles = 1 inch.
Map 10. Ten miles = 1 inch.

NOTE.—It is not attempted in these maps to indicate the extension of coal seams below their natural drainage except in a few instances which are duly noted in the text. All the seams of the state dip to the southeast or south and, consequently, some extension of each in the same direction is always to be inferred. When a coal seam is represented as included within the boundaries of a lower seam, the extension of the latter throughout the territory occupied by the higher seam is always to be inferred.

GEOLOGY OF OHIO
VOLUME SEVEN
No. 1
EDWARD ORTON
STATE GEOLOGIST
MAP OF THE
MIDDLE KITTANNING
AND
UPPER FREEPORT COALS
ABOVE DRAINAGE IN
LAWRENCE COUNTY
AND IN
GALLIA AND JACKSON
COUNTIES IN PART
Scale Two Miles Per Inch
Drawn By C.E. Sherman
1892
MIDDLE KITTANNING COAL
UPPER FREEPORT COAL
BLAST FURNACES
XII = RANGE NUMBERS
7 = TOWNSHIP NUMBERS
SCIOTO
GALLIA
LAWRENCE
JACKSON CO
KENTUCKY
WEST VIRGINIA
OHIO RIVER
PORTSMOUTH
IRONTON
GALLIPOLIS
ASHLAND
CATLETTSBURG
HUNTINGTON
GUYANDOTTE
CEREDO
KENOVA
PROCTORVILLE
SOUTH POINT
BURLINGTON
LUCASVILLE
SCIOTOVILLE
WHEELERSBURG
HAVERHILL
GREENUPSBURG
RIVERTON
HANGING ROCK
PETERSBURG
MILLERSPORT
CROWN CITY
ROME
WINDSOR
UNION
FAYETTE
PERRY
UPPER
ELIZABETH
DECATUR
SYMMES
AID
MASON
WALNUT
HARRISON
GUYAN
GREEN
HARRISON
BLOOM
VERNON
PORTER
CLAY
VALLEY
MADISON
HAMILTON
JEFFERSON
GREENFIELD
MILTON

150384



GEOLOGY OF OHIO
VOLUME SEVEN

No. 2.

EDWARD ORTON
STATE GEOLOGIST

MAP OF THE

MIDDLE KITTANNING
AND
UPPER FREEPORT COALS
ABOVE DRAINAGE IN

JACKSON COUNTY
AND IN
VINTON MEIGS AND GALLIA
COUNTIES, IN PART

Scale Two Miles Per Inch

Drawn By C.E. Sherman.
1882

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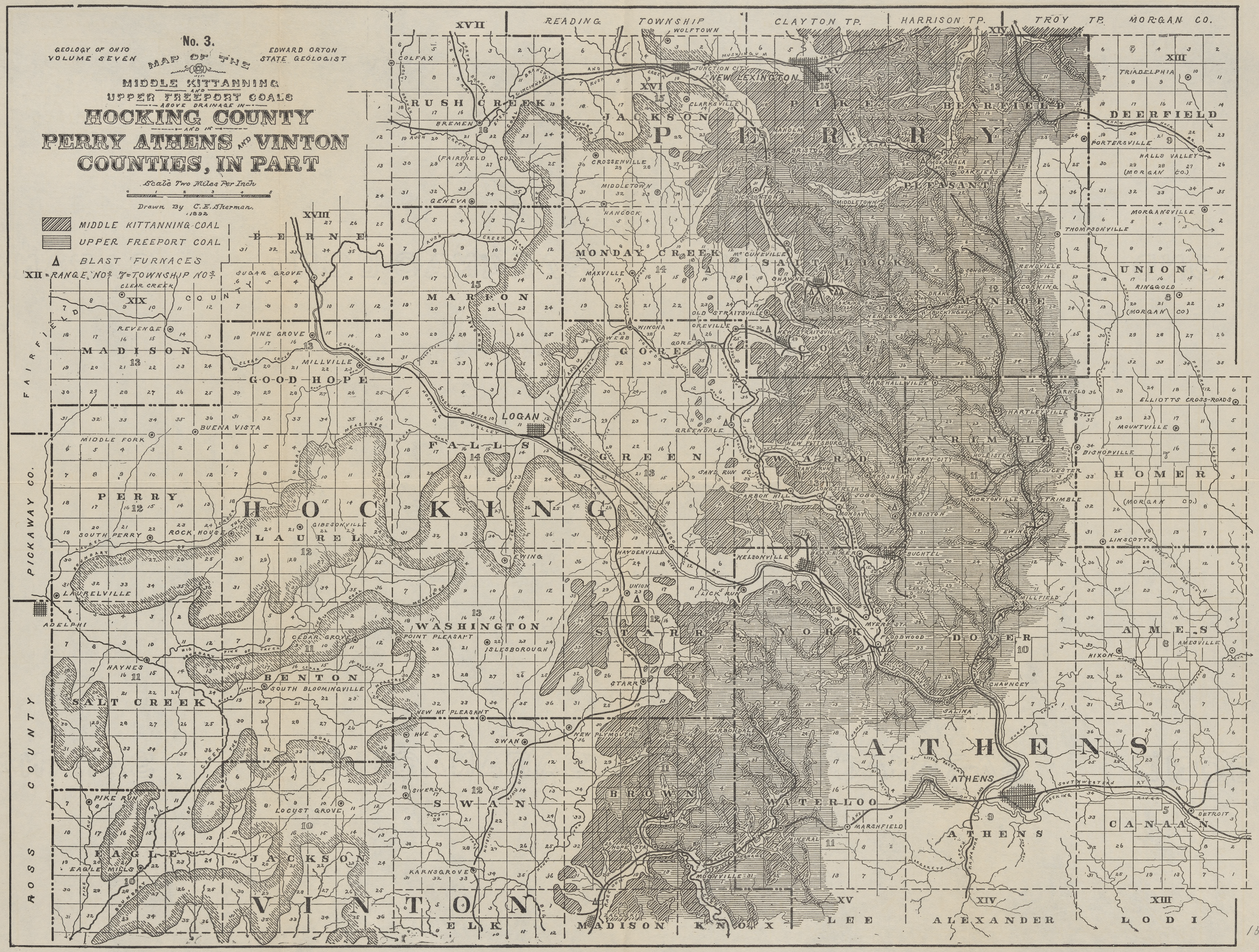
SMITHSONIAN NATIONAL MUSEUM INSTITUTION


No. 3.
GEOLOGY OF OHIO
VOLUME SEVEN
EDWARD ORTON
STATE GEOLOGIST
MAP OF THE
MIDDLE KITTANNING
AND
UPPER FREEPORT COALS
ABOVE DRAINAGE IN
HOCKING COUNTY
AND IN
PERRY ATHENS AND VINTON
COUNTIES, IN PART
Scale Two Miles Per Inch
Drawn By C. E. Sherman.
1892
MIDDLE KITTANNING COAL
UPPER FREEPORT COAL
BLAST FURNACES
XII = RANGE NOS. 7 = TOWNSHIP NOS.
READING TOWNSHIP
CLAYTON TP.
HARRISON TP.
TROY TP.
MORGAN CO.
PICKAWAY CO.
ROSS COUNTY
FAIRFIELD COUNTY
HOCKING
PERRY
ATHENS
VINTON
RUSH CREEK
JACKSON
PIKE
BEARFIELD
DEERFIELD
BERNE
MARION
MONDAY CREEK
SALT LICK
MONROE
UNION
MADISON
GOOD HOPE
GORE
COAL
FALLS
GREEN
WARD
TRIMBLE
HOMER
PERRY
LAUREL
WASHINGTON
STARR
YORK
DOVER
AMES
SALT CREEK
BENTON
SWAN
BROWN
WATERLOO
ATHENS
CANAAN
EAGLE
JACKSON
ELK
MADISON
KNOX
LEE
ALEXANDER
LODI
LOGAN
NEW LEXINGTON
ATHENS
WOLFTOWN
COLFAX
BREMEN
GENEVA
CROSSENVILLE
MIDDLETOWN
HANCOCK
MAXVILLE
WINONA
WEBB
GORE
OREVILLE
OLD STRAITSVILLE
NEW STRAITSVILLE
MARSHALLVILLE
HARTLEYVILLE
ARNOLD
ELLIOTTS CROSS-ROADS
MOUNTVILLE
BISHOPVILLE
TRIMBLE
MORTONVILLE
EWING
LINSCOTTS
MILLFIELD
HIXON
AMESVILLE
CHAUNCEY
SALINA
MARSHFIELD
MINERAL
MOONVILLE
KARNSGROVE
SIVERLY
SWAN
NEW PLYMOUTH
CARBONDALE
NEW MT PLEASANT
HUE
SOUTH BLOOMINGVILLE
HAYNES
CEDAR GROVE
POINT PLEASANT
ISLESBOROUGH
LAURELVILLE
ADELPHI
SOUTH PERRY
ROCK HOUSE
GIBESONVILLE
MIDDLE FORK
BUENA VISTA
REVENGE
CLEAR CREEK
SUGAR GROVE
PINE GROVE
MILLVILLE
LOCUST GROVE
PIKE RUN
EAGLE MILLS
CARBON HILL
SAND RUN JC.
NEW PITTSBURGH
MURRAY CITY
HOLLISTER
GLOUCESTER
ORBISTON
BUCHTEL
BESSEMER
NELSONVILLE
LICK RUN
UNION
HAYDENVILLE
EWING
GREENDALE
MAHOLM
BRISTOL
N. FERRARA
OAKFIELD
PLEASANT
DICKSONTON
McCUNEVILLE
SHAWNEE
CONGO
DRAKES
BUCKINGHAM
HEMLOCK
CORNING
RENDVILLE
THOMPSONVILLE
MORGANSVILLE
RINGGOLD
PORTERSVILLE
HALLS VALLEY
TRIADELPHIA
JUNCTION CITY
CLARKSVILLE
MUSKINGUM
MEASURES
COLUMBUS
HOCKING RIVER
SOUTHWESTERN RY
DETROIT
XVII
XVI
XV
XIV
XIII
XVIII
XIX
XV
XIV
XIII

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GEOLOGY OF OHIO
VOLUME SEVEN

No. 4.

EDWARD ORTON
STATE GEOLOGIST

MAP OF THE

MIDDLE KITTANNING AND UPPER FREEPORT COALS

ABOVE DRAINAGE IN

MUSKINGUM COUNTY AND IN LICKING PERRY AND MORGAN COUNTIES, IN PART

Scale two miles per inch

C.E. Sherman Chief Draftsman
1892

SMITHSONIAN NATIONAL MUSEUM ASSOCIATION

GEOLOGY OF OHIO
VOLUME SEVEN

No. 5.

EDWARD ORTON
STATE GEOLOGIST

MAP OF THE

MIDDLE KITTANNING
AND
UPPER FREEPORT COALS
ABOVE DRAINAGE IN

COSHOCTON AND HOLMES COUNTIES.

Scale Two Miles per Inch

C.E. Sherman Chief Draftsman
1892

MIDDLE KITTANNING COAL
UPPER FREEPORT COAL
▲ BLAST FURNACES
XII = RANGE Nos 8=TOWNSHIP Nos.

H.J. SHAW DEL.

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GEOLOGY OF OHIO
VOLUME SEVEN

No. 6.

EDWARD ORTON
STATE GEOLOGIST

MAP OF THE

MIDDLE KITTANNING
AND
UPPER FREEPORT COALS
ABOVE DRAINAGE IN

TUSCARAWAS COUNTY
AND IN
HARRISON STARK AND CARROLL COUNTIES, IN PART

Scale Two Miles per Inch

C.E Sherman, Chief Draftsman
1892

MIDDLE KITTANNING COAL
UPPER FREEPORT COAL
Δ BLAST FURNACES
XII = RANGE NUMBERS
9 - TOWNSHIP NUMBERS

SEE MAP NUMBER EIGHT

COLUMBIANA CO.

WAYNE CO.

HOLMES CO.

COSHOCTON CO.

H.J. SHAW DEL.

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GEOLOGY OF OHIO
VOLUME SEVEN

No. 7.

EDWARD ORTON
STATE GEOLOGIST

MAP OF THE

MIDDLE KITTANNING
— AND —
UPPER FREEPORT COALS
— ABOVE DRAINAGE IN —

COLUMBIANA COUNTY
— AND IN —
JEFFERSON AND CARROLL COUNTIES, IN PART

Scale two miles per inch

C.E. Sherman Chief Draftsman
1892

MIDDLE KITTANNING COAL

UPPER FREEPORT COAL.

XII RANGE NUMBERS

8 TOWNSHIP Nos

H.J. SHAW DEL.

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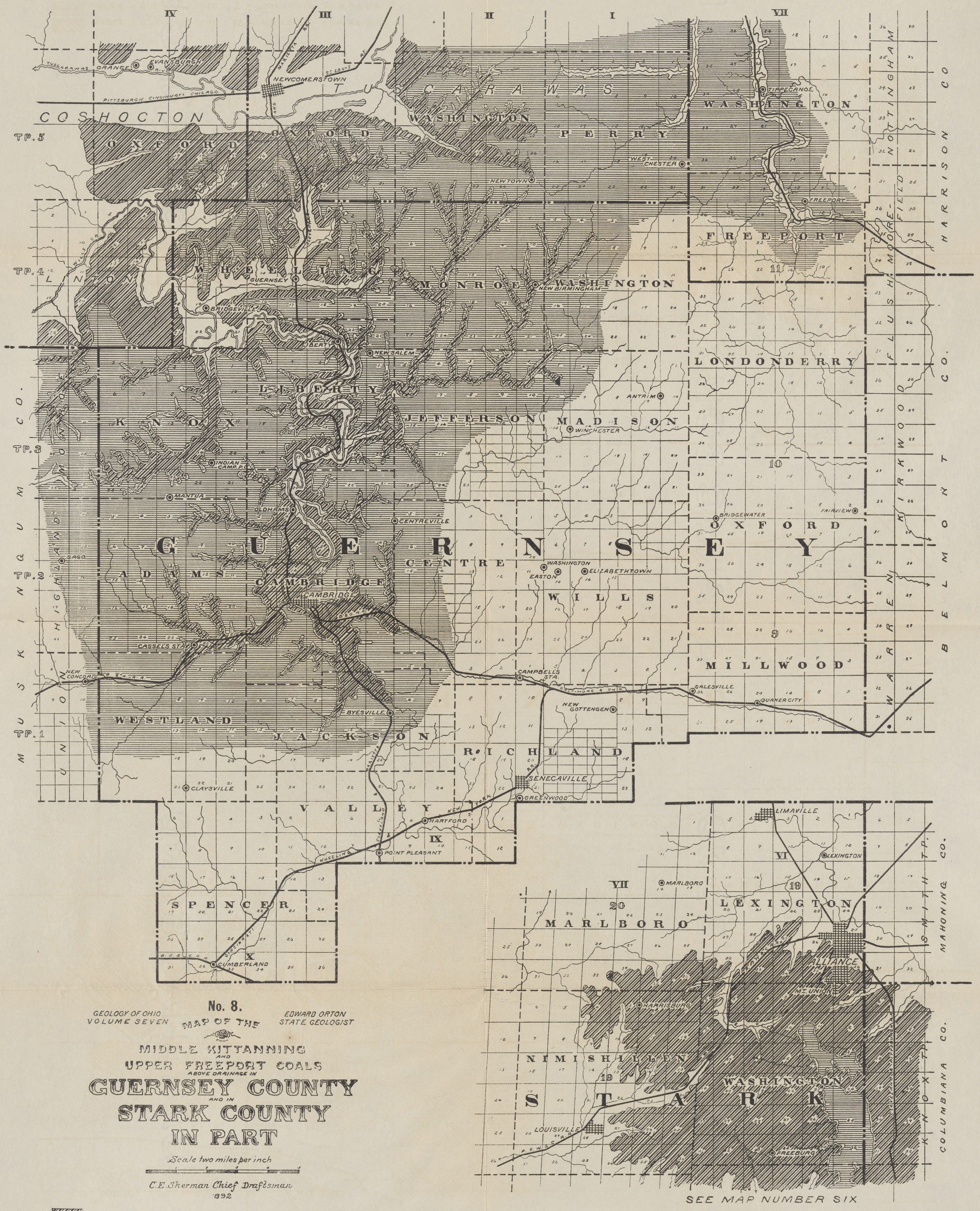

SEE MAP NUMBER SIX

No. 8.

GEOLOGY OF OHIO VOLUME SEVEN

EDWARD ORTON STATE GEOLOGIST

MAP OF THE

MIDDLE KITTANNING AND UPPER FREEPORT COALS ABOVE DRAINAGE IN

GUERNSEY COUNTY AND IN STARK COUNTY IN PART

Scale two miles per inch

C.E. Sherman Chief Draftsman

892

MIDDLE KITTANNING COAL

UPPER FREEPORT COAL

IV - RANGE NUMBERS.

7 - TOWNSHIP NUMBERS

H.J SHAW DEL.

170386

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GEOLOGY OF OHIO
VOLUME SEVEN

No. 9

EDWARD ORTON
STATE GEOLOGIST

MAP OF THE PITTSBURGH AND MEIGS CREEK COAL FIELDS

Scale six miles per inch

C.E. Sherman Chief Draftsman.
1892

NOTES.

THE PITTSBURGH COAL - is mapped in Jefferson, Harrison, Belmont, Guernsey, Athens, Meigs and Morgan Counties. A few outliers in Lawrence County are not represented.

THE MEIGS CREEK COAL - is mapped in Muskingum Guernsey, Noble, and Morgan Counties. Its extensions into Washington, Monroe, and Belmont Counties are not represented.

THE PITTSBURGH COAL - is believed to occupy, in addition to the areas indicated, the central and southern townships of Belmont Co. and, at least, the northeastern half of Monroe Co.; also, several of the southwestern townships of Washington Co, two of the southeastern townships of Athens Co. and the entire eastern half of Meigs Co.

THE MEIGS CREEK COAL - occupies considerable territory in northern Washington and eastern Monroe Counties.

H.J. SHAW DEL.

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GEOLOGY OF OHIO
VOLUME SEVEN.

No. 10.

EDWARD ORTON,
STATE GEOLOGIST.

THE

COAL FIELDS OF OHIO.

GENERAL MAP

SHOWING

AREAS ABOVE DRAINAGE

OF THE

PRINCIPAL SEAMS.

Scale 10 miles per inch.

10 20

C. E. Sherman Chief Draftsman
1892

MIDDLE KITTANNING COAL
UPPER FREEPORT COAL
PITTSBURGH COAL
MEIGS CREEK COAL
BOUNDARY OF THE COAL MEASURES

ENGRAVED BY E.A. DUNLAP CO. CIN.

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